INDEX

April to June, 1934.

[*For Index of Register of Patents, Correspondence, Parliamentary Intelligence, and Legal Intelligence, see p. vii*]

Adamson, Daniel, Ltd., Patent Super Lancashire Unit, 155
Aerofilms, Ltd., Exhibition, 441
Alcohol, Production of from Ethylene under Pressure, 444
Alliance and Dublin Consumers' Gas Company, Novel Gas Advertising by "Live" Hoardings, 810
Alloa Gas Department, Provisional Order, 137
Amalgamations, Sir D. Milne-Watson's Address to N.G.C., 370
American Gas Association—
  Central Laboratory, 135
  Comparison with the I.G.E., 854
  Fulweiler, W. H., the Gum Problem, 192, 207
American Gas Industry, Institution Papers on, 546, 551, 554, 782, 784, 786
American Gas Journal, 75th Anniversary, 647
Appliances, Price of, 193
Ascot District Gas and Electricity Company, New Capital Issue, 276
Ascot Water Heaters, Ltd., Display, 857
Ashmore, Benson, Pease, & Co., Ltd., New Holder at Middlesbrough, 378
Association of British Chemical Manufacturers, 377
Association of Statutory Inspectors of Gas Meters, 377
Association of Tar Distillers, 253
Atley, W. W., Recent Reconstruction Work at Stockton-on-Tees, 312, 323
Australian Gas Institute, Transactions, 858
Australian Gas Light Company, 88
Austria—
  Gas Production in, 647
  Meeting of Gas and Water Engineers, 647

Bain, L., Presidential Address before North British Association, 77, 93
Bangor Gas Department—
  Bulk Supply to Bethesda, 857
  Results, 807
Bate, F. H., Carbonizing Results in Vertical Practice, 203
Bedford District Gas Company, Balloon Race, 648
Belfast Gas Department—
  Cookery Classroom at Elementary School, 442
  Results, 616
  Traffic Bollards, 316
B.E.N. Patents, Ltd, 613
Benzol and By-Products, Ltd., 377
Benzole—
  Aspects of Recovery and Refining, 559, 773
  Recovery of Crude from Vertical Retort Gas, 38
  Recovery Plant at—
    Leeds, 540
    Stoke-on-Trent, 382
  Removal of Thiophen from, 382
Berkhampstead Gas Company, Special Order, 914
Bideford Gas and Coke Company, 866
Bills—
  Amendment of Law of Arbitration, 380
  Gas Undertakings, 135, 855, 859
  Petroleum Production, 25
  Sheffield Gas Company, 402, 438, 469, 814
Birkenhead Gas Department, Display, 377
Birks, F. M.—
  Comparative Table of Plants, 196
  Steam Requirements on a Gas-Works, 210
Birmingham Gas Department—
  Board of Trade Inquiry, 211
  Carbonizing Results in Vertical Practice, 192, 203
Bishop's Stortford, Harlow, and Epping Gas and Electricity Company, Special Order, 914
Blackburn Gas Department—
  Demonstration of Hair Waving, 377
  Results, 807
Blackman Export Co., Ltd., 155
Blackpool Gas Department—
  Athletic and Social Club, 380
  Manager's Salary, 315
Blincoe, C. F., Who Sells the Cheapest Gas? 537
Board of Trade—
  Birmingham Inquiry, 211
  Huthwaite Inquiry, 194, 272
  Proposed Abolition of Offices of Chief Gas Examiner and Referees, 647
Bodmin Gas Consumers' Company, Prize for Carnival Exhibit, 808
Boilers, Drought Menace, 80
Bolton Gas Department, 807
Bombay Gas Company, Annual Meeting, 333
Books, Reviews, &c.—
  Annual Report of S.C.I., 202
  Cement and Reinforced Concrete, 140
  Design and Construction of High-Pressure Chemical Plant, 255
  Gas Appliances, 255
  Gas Flame as an Air Tester, 913
  Ignition Phenomena in Gaseous Mixtures, 913
  International Coal Carbonization, 375
  Municipal Journal Year Book Supplement, 251
  Municipal Year Book, 28
  New Modern Gas-Works Practice, 541
  Technical Gas Analysis, 140
  Welding Handbook, 26
  Willings Press Guide, 375
Boon, W., Problems of Coke Sales, 319
Bott, L., Unusual Photograph of Interior of Gasholder, 539
Bournemouth Gas and Water Company—
  Extraordinary General Meeting, 402
  Special Order Application, 473
Boys, Prof. C. V., New Calorimeter, 375
Boys Calorimeter, New Model, 310, 317, 375, 377
Bradford Gas Department, Amalgamation with Electricity Department Considered, 377, 902
Bradford-on-Avon Gas Company, Centenary Celebrations, 331
Bridgnorth Gas Department, Price Reduction, 195
Briggs, F. C., Increasing Consumption per Consumer, 134
Brighouse Gas Department—
  Exhibition, 139
  Results, 865
Brighton, Hove, and Worthing Gas Company—
  Co-Partnership Conference, 152
  Relation between Gas Sales and Temperature, 644
  Special Order Application, 214
Bristol Gas Company, New Showrooms, 441
British Commercial Gas Association—
  Annual Meeting of Gas Salesmen, 201
  Conference at Birmingham, 251
  Eastern District Conference, 809
  Gas in the Glass Industry, 197
  Housing Scheme, 855
  Midlands District Conference, 379
  Publicity, 136
  Technical Sub-Committee Visit Cardiff, 858
  Yorkshire District Conference, 809
British Engineers' Association, Handbook, 441
British Gas Light Company, Cookery Demonstrations at Bletchley, 544
British Industries Fair—
  Change of Date, 79, 134, 312
  Gas Industry's Decision, 373, 535
  Working Models at Summer Show, 138
British Standards Institution, Chemical Lead, 649
British Thomson-Houston, Ltd., 152
Broadstairs Gas Company—
  Exhibition, 377
  Results, 41
Brockway, F. G., Presidential Address to Eastern Counties Association, 371, 395
Brown, H. H., Production of Carburetted Gas from Hand-Operated Sets, 143
Budget, the, 25
Burnley Gas Department, Swimming Pool Heated by Gas, 644, 657, 856
Burton, A. H., Controlled Cracking in Vertical Retorts, 908
Burton-on-Trent Gas Department—
  Filling of New Gasholder, 194
  Results, 865

Calorific Value, Alterations—
  Halesowen, 97
  Solihull, 97
Calorimeters, Gas Cut-Off Safety Device, 31
Canadian Gas Industry, Institution Papers on, 546, 551, 554, 782, 784, 786
Cape Town and District Gas Light and Coke Company, Annual Meeting, 270
Carbonization—
  Of Somerset Coals, 248, 265
  Production of Smokeless Fuel in Chamber Ovens at Medium Temperatures, 603
  Reconstructed Plant at Rothesay, 256
Carburetted Water Gas, Production by Hand-Operated Sets, 143
Cardiff Gas Light and Coke Company—
  Co-Partnership Meeting, 79
  Steaming of the Free Space in Horizontal Retorts, 439, 451
Carlisle Gas Department, 914
Carmichael, T., Administration, Accounting, and Publicity in Canada and U.S.A., 554, 786
Carpenter, Dr. C., Comment on Abolition of Office of Chief Gas Examiner and Referees, 647
Carr, W. M.—
  Awarded O.B.E., 646
  Gas Production in Canada and U.S.A., 546, 782
Central Heating, Degree Days, 542, 644
Ceramic Society, Refractory Materials Section Meeting, 465
Chamber Ovens, Production of Smokeless Fuel at Medium Temperatures, 603, 779
Chandler, S. B., Address Before Letchworth Rotary Club, 858
Cheltenham and District Gas Company—
  Carnival Display, 905
  Offer by Severn Valley Gas Corporation, 138
Chemical Engineering and Wilton's Patent Furnace Company, Ltd., Crude Benzole Recovery at Dundee, 276
Chemical Plant, Exhibition in Germany, 197
Chertsey Gas Company, Offer by S.E. Gas Corporation, 378, 539
Chester United Gas Company—
  Cookery Demonstrations, 538
  Co-Partnership Meeting, 81
  Mr. H. P. Gamon Joins Board, 901
Chesterfield Gas Department, New Scale of Charges, 810
City and Guilds of London Institute—
  Examination Questions, 653
  Regulations and Syllabuses, 538

Claye, T., Gas via the Vinegar Bottle, 82
Cleethorpes Gas Company Visited by Eastern Counties Association, 394
Clyde Valley Gas Supply Company, 26
Coal—
  Briquetting Without a Binder, 542
  Carbonization of Somerset, 248, 265
  Demonstration of Road Vehicles Driven by Derivatives, 648
  Drawbacks in the Use of Clean, 199
  Earl Fitzwilliam on Cleaner, 372
Coal Cleaning—
  New Heavy Liquid Process, 542
  Wearmouth Colliery Plant, 381
Coal Industry and the Price of Coal for Gas and Electricity, 372
Coal Utilization Council, Sales Education and Training, 198
Cockermouth Gas Department Visited by Cumberland and Westmorland Gas Managers' Association, 905
Coke—
  For Steam Raising, 142
  Marketing of, 912
  New Handling Plant at Leeds, 252
  Nomenclature, 311, 371
  Problems of Sales, 319
  Production in Horizontal Practice, 96
  Salesmen's Circle, 311, 319
Coke Oven Gas—
  For Town Supply, 438, 457, 536
  Glasgow Reject Offer of Supply, 809
  Utilization of, M. Koopman on, 457
Coke Oven Managers' Association (Midland Section), Dummett, G. A., and Greenfield, G. J., on Bulk Density of Coal and Coke Oven Operation, 317
Coke Ovens—
  Bulk Density of Coal and Operation of, 317
  New Battery at Consett, 377
Coke Salesmen's Circle, 311, 319, 860
Coldstream New Gas Light Company, 195
Coleraine Gas Department, 252
Colombo Gas and Water Company, Annual General Meeting, 269
Continental Notes—
  A New Consumer's Governor, 863
  A New Heavy-Liquid Coal Washing Process, 542
  Coal Briquetting Without a Binder, 542
  Gas Heating for Churches, 31
  Improvement in the Quality of Coke from Saar Coal, 255
  Production of Alcohol from Ethylene Under Pressure, 444
  Removal of Thiophen from Benzole, 382
Co-Partnership at Croydon, 381, 813
Corbridge Gas Company, 41
Cory, W., & Sons, Ltd., 538
Council for Research on Housing Construction, 855
Coventry Gas Department—
  Loan for Extension on Mains, 315
  Robot as Sales Aid, 858
  Showroom Display of Swimming Pool, 859
Credit for Industry, Ltd., 24
Crossley Brothers, Ltd., 214
Croydon Gas Company—
  Coming of Age of *Co-Partner*, 381
  Co-Partnership Meeting, 813
Cumberland and Westmorland Gas Managers' Association, Annual Meeting, 905
Curtis, H.—
  Correlation of Costs and Gas Charges with Particular Reference to Working Results at Macclesfield, 568, 789
  The Seasonal Load, 900

Dalkeith Gas Company, Lighting Costs, 82
Danske Gaskompagni, Change of Address, 815
Darwin Gas Department, New Plant's Elimination of Smoke Nuisance, 315
Davison & Partner, Ltd., Automatic Blue Water Gas Plant at Raunds, 29
Department of Scientific and Industrial Research, Report on Lancashire Coal Seams, 322
Distribution, High Pressure at Halifax, 40
Drayton Regulator and Instrument Co., Ltd.—
  Edgewise Ring Balance Instruments, 155
  Type G "Variostat," 274
Duckham, Alexander, & Co., Ltd., "Keenol" Lubricants, 811
Duckham, Sir Arthur, Memorial Fund—
  Lists of Donors, 27, 81, 139, 195, 253, 317, 379, 443, 539, 648, 809, 860, 904
  Notice of Second Meeting, 137
Dufton, A. F., Degree Days, 542, 644
Dukinfield Gas Department—
  Exhibition, 315
  Results, 914
  Sale of Appliances as Result of Exhibition, 377
Dummett, G. A., and Greenfield, G. J., Bulk Density of Coal and Coke Oven Operation, 317
Dunbar Gas Department, 861
Dunfermline Gas Department—
  Action, 858, 914
  To Take Over Tulliallan Gas Undertaking, 26
Dyde, J. H., Address to Plymouth Rotary Club, 857

Eastbourne Gas Company, Notice of Order Application to Acquire Seaford, 809
Eastern Counties Association—
  F. G. Brockway's Address, 371, 395
  Half-Yearly Meeting at Cleethorpes, 394
Edinburgh Gas Department—
  Convener's Optimism, 647
  Display at Arts and Crafts Exhibition, 254
  Exhibition, 137
  Record Output, 79, 315
Electricity—
  Attack on Gas, 440
  Failure at Blackheath, 857
  Failure at Epsom, Sutton, and Morden, 377
  Failure at Oxford, 315
  Failure at West Bromwich, 194
  "Gas Tyranny," 193
  Increases Rates at Dumfries, 380
  Removal of Cooker at Lowestoft, 377
  Tariffs at Pontardawe, 249
Exhibitions—
  Alcombe and Minehead, 315
  Brighouse, 139
  Broadstairs, 377
  Bromwich, 377
  Coleraine, 252
  Dukinfield, 315
  Edinburgh, 254
  Godalming, 317
  Harwich, 649
  Horsham, 196
  Ideal Home, 86
  Kidderminster, 380
  Lancaster, 28
  Torquay, 318
  Watford and St. Albans, 649
  Winsford, 649

Falk, Stadelmann, & Co., Ltd., Visit by Stroud Gas Light and Coke Company's Social Club, 647
Fall, F. P., Address before North of England Asociation, 536
Fells, H. Alex., Town Gas in the Steel Industry, 587, 776
Finlayson, T. Campbell, Review of "The New Modern Gas-Works Practice," 541
Firth, H., High-Pressure Distribution, 40
Fisher, Humphries, & Co., Ltd., New Rotary Screen, 914
Fitzwilliam, Rt. Hon. Earl, Presidential Address before Society of British Gas-Industries, 289, 372
Floodlighting—
  At York, 902
  Swimming Pools, 647
Folkestone Gas Company, Staff Changes, 808
Formby Gas Company, Offer for Shares, 377
Forshaw, A., Lecture at Blackburn, 137
French Gas Congress, Notice of 57th Meeting, 544
Fuel Research Board, Visitors' Day, 907

Gas—
  Discovery of "Natural," at Bombay, 253
  Distribution and Utilization of, in Canada and U.S.A., 551
  For Hair Waving, 377
  For Heating Swimming Pools, 443, 644, 657, 856, 909
  For Isolated Farms, 251
  Heat Treatment by, 253
  Heating for Chambers, 31
  Hydrogen from, 136
  Poisoning Fatality, 645, 656
  Re-Staining of Purified, 136
  Suicide and Introduction of Odorants into, 249
  Town, in the Steel Industry, 587, 776
Gas Chambers and Coke Ovens, Ltd., New Plant at Stalybridge, 473
Gas-Driven Vehicles—
  Compressing Station at Lyons, 315
  Demonstration at Westminster, 648
  Experiences at Rotherham, 39
  Institute of Fuel Discussion, 200
  National Gas Council and, 906
  Reference to, in the "Nickle Bulletin," 155
Gas Grid—
  Cologne and Ruhr, 377
  South Yorkshire, 438
Gas Industry—
  And Gas Charges, 899
  British Art in Industry Exhibition, 645
  Consumers' Service, 249
  Liverpool Education Committee's Pamphlet, 648
  Standard Bath, 536
Gas Institute of New Zealand, Presidential Address of Mr. W. B. O'Toole, 911
Gas Journal—
  Eighty-Five Years, 78
  Technical Signpost, 650
Gas Light and Coke Company—
  Attack on Company's Act of 1933, 440
  Battersea Showrooms Opened, 443
  Industrial Showrooms at Stratford, 80
  Southern Association Visit Watson House and Fulham, 544
Gas-Operated Wireless Set, 315
Gas Referees—
  Official Testings of Metropolitan Gas Companies, 336
  Proposed Abolition of, 647
Gas Undertakings, Modernizing Small, 575
Gas Undertakings' Miniature Rifle League, 82
Gas-Works, Model Referred to in Press, 77
Gasholders—
  Lausanne's New Waterless, 539
  Repairs while in Action, 655
  Unusual Photograph of Interior, 539
General Gas Appliances, Ltd., Visited by Manchester Juniors, 860
Glasgow Gas Department—
  Coke Oven Gas, 251, 809
  Inquiry into Coal Imports, 904
Glasgow Housing Committee Retain Gas Lighting, 808
Glover, Thomas, & Co., Ltd., and R. & A. Main, Ltd., Institution Visit to Edmonton, 538, 803, 804
Godalming Gas and Coke Company, Exhibition, 317
Goodenough, Sir Francis, on Committee of "British Art in Industry" Exhibition, 645
Goodlass Wall and Lead Industries, Ltd., "Anodite," 155
Gosport District Gas Company, New Capital Issue, 916
Governor, A New Consumers', 863
Grangemouth Gas Commissioners, Income-Tax Claim, 194
Greenfield, G. J., Bulk Density of Coal and Coke Oven Operation, 317
Guernsey Gas Light Company—
  Propaganda on Delivery Vans, 905
  Results, 616
Gum Formation—
  Factors Influencing, 192, 207
  Questionnaire, 249

Haddington Gas Company, Public Lighting, 857
Halesowen Gas Company, Calorific Value, 473
Halifax Gas Department, Application to Borrow, 857
Halkett, R., Who Sells the Cheapest Gas? 646
Halliwell, F. B., Experiences with High-Pressure Gas for Road Transport, 39
Hamilton Gas Department, Visit of Scottish Eastern Juniors, 861
Hartlepool Gas and Water Company, Corporation Visit Works, 380
Hartley, Dr. H., Radiant Heat and Comfort, 199
Harwich Gas Company, Exhibition, 649
Hassocks and District Gas Company, Results, 41
Hastings and St. Leonards Gas Company, Visit by London and Southern District Juniors, 860
Haywards Heath District Gas Company, 473
Heastie, B., Gasholder Repair while in Action, 655
Heathcoat, Dr. F., Scientific Research as an Aid to Industrial Gas Salesmanship, 259
Hemel Hempstead District Gas Company, Commercial Hustle 99 Years Ago, 250
Hereford Gas Department—
  Extension Application, 379
  Lighting, 82
Herne Bay Gas Company, Ltd., Presentation to Retiring Employees, 317
Heywood Gas Department—
  Carnival Display, 860
  Results, 865
Hibbs, T., Features of the New Mossley Gas-Works, 468
Hole, S., Carbonization of Somerset Coals, 248, 265
Holmes, W. C., & Co., Ltd.—
  Benzole Recovery Plant at Leeds, 540
  Calendar, 27
  Change of Telephone Number, 155
Hong Kong and China Gas Company, Ltd., Gasholder Accident, 153, 380
Horley District Gas Company, Exhibition, 861
Horseley Bridge and Thomas Piggott, Ltd., 916
Horsham Gas Company, Exhibition, 196
Housing Schemes—
  British Commercial Gas Association and, 855
  Freedom of Choice for Tenants, 855
Howat, W. Carrick, Surface Fabric for Floors, 155
Huff, W. J., Re-Staining of Purified Gas, 136
Huntington and Heberleine, Coal Cleaning Plant, 381
Huthwaite Gas Company, Inquiry, 194, 272
Hydrogenation, New Cardiff Plant, 378

Ideal Home Exhibition, 77, 86
Ilkley Gas Department, Application to Borrow, 902
Illuminating Engineering Society, Meeting, 377
Imperial Continental Gas Association—
Annual Meeting, 658
Report, 443
Imports Duties Advisory Committee, Refusal to Place Petroleum Coke on the Free List, 858
Industrial Co-Partnership Association, Conference, 152
Industrial Gas Development Centres—
Heating of Swimming Pools, 644
Scheme, 900, 910
Sir David Milne-Watson and, 370
Industrial Heating—
Economics of Gas in Industry, 257
Scientific Research as an Aid to Industrial Gas Salesmanship, 248, 259
Institute of Chemical Engineers, Elections, 79
Institute of Engineers-in-Charge, Annual Dinner, 138
Institute of Fuel—
Discussion on Gas-Driven Vehicles, 200
Dr. H. Hartley, Radiant Heat and Comfort, 199
Elections, 254
Koopman, M., Utilization of Coke Oven Gas, 457
Preece and Samuel, Drawbacks in the Use of Clean Coal, 199
Institution of Gas Engineers—
Amalgamation of the Associations, 853
American Reunion Dinner, 798
Benevolent Fund—
Meeting of Contributors, 794
Report of Management Committee, 567
Caricatures, 772
Carmichael, T., Administration, Accounting, and Publicity in Canada and U.S.A., 554, 786
Carr, W. M., Gas Production in Canada and U.S.A., 564, 782
Current Events During Institution Week, 441
Curtis, H., Correlation of Costs and Gas Charges with Particular Reference to Working Results at Macclesfield, 568, 789
Education Scheme, Examination Questions, 399
Evening Star Lodge No. 1719, 798
Fells, H. Alex., Town Gas in the Steel Industry, 587
Ladies Visit the Zoo, 803
"Lancastria" Cruise, 376
Medallists, 755
New Members, 770, 758
Parkinson, D. B., Modernizing Small Undertakings, 575, 795
Presidential Address of F. P. Tarratt, 767
Provisional Programme, 376
Review, 751
Shaw, J. F., and King, J. G., Production of Smokeless Fuel in Chamber Ovens at Medium Temperatures, 603, 779
Sussex Tour, 802
Visit to Messrs. Glover & Main, 804
Visit to the Ford Works at Dagenham, 799
Wikner, S. W. A., and Richardson, B., Aspects of Benzole Recovery and Refining, 559, 773
Institution of Heating and Ventilating Engineers—
Dufton, A. F., Degree-Days, 542
Notice of Summer Meeting, 251
Revised Syllabus, 538
Summer Meeting at Hastings, 902
Institution of Mechanical Engineers, Birks, F. M., Steam Requirements on a Gas-Works, 210
Investors' Gas and Electric Trust, 378
Ireland, Meeting of Northern District Engineers, 251

Japan, Gas Progress in, 647
Jenkins, W. J., & Co., Coke Screening and Grading Plant at Wandsworth, 83
Junior Institution of Engineers, Jubilee Celebrations, 316

Keillor, G. E. H., Gas-Heated Open Air Swimming Pool, 909
Keith & Blackman Co., Ltd., 858
Kelso Gas Company, Gas Lighting Scheme, 858
Kidderminster Gas Company, Exhibition and Price Reduction, 380
Kilsyth Gas Department, Price Reduction, 857
King, Dr. J. G.—
Production of Smokeless Fuel in Chamber Ovens at Medium Temperatures, 603, 779
Review of "International Coal Carbonization," 375
Kirkham, Hulett, & Chandler, Ltd., Ammonia Extraction Plant at Haslemere, 866
Koopman, M., Utilization of Coke Oven Gas, 438, 457, 647

Lancaster Gas Department, Exhibition, 28
Langford, A. R., Methods for Reducing District Complaints, 36
Langford, K. H. H., Economics of Gas in Industry, 257
Lausanne, New Dry-Seal Gasholder, 329
Leamington Priors Gas Company—
Gas Installation in Public Lavatories, 902
Results, 154
Visit of Midland Association, 445
Leeds Gas Department—
Benzole Recovery Plant at Meadow Lane, 540
Coke-Handling Plant at Wortley, 252
Legislation, Bills and Budget, 25
Lichfield Gas Company, Offer by Dawnay, Day, & Co., 904
Lighting—
Oxford, 318
Research Laboratory, 446
Swimming Pools by Gas, 647
Traffic Bollards in Belfast, 316
Lincoln Gas Department, 81, 807
Lisburn Gas Department, 807
Liverpool Gas Company—
All-Gas Exhibition House, 194
Education Committee Pamphlet, 648
Employment Plan for Fitters, 251
Offer for Shares of Formby Gas Company, 377
London and Counties Coke Association, Inauguration of Coke Salesmen's Circle, 311
London and Southern District Junior Gas Association—
Annual Business Meeting, 466
Brown, H. H., Production of Carburetted Gas by Hand-Operated Sets, 143
Summer Visits to Hastings, 860
Londonderry Gas Light Company, 154
Lostwithiel Gas Light and Coke Company, 565
Low Temperature Carbonisation, Ltd., Extensions at Askern, 538
Low-Temperature Carbonization, Winser's Continuous Rotary Oven, 32
Lowestoft Water and Gas Company, Removal of Electric Cooker, 377

Macclesfield Gas Department, Correlation of Costs and Gas Charges with Particular Reference to Working Results, 568, 789
Madden, H. D., Steaming the Free Space in Horizontal Retorts, 439, 451
Main, R. & A., Demonstration at Hatfield Park, 861
Malta and Mediterranean Gas Company, Annual Meeting, 812
Manchester and District Junior Gas Association—
Hibbs, T., Features of the New Mossley Gas-Works, 468
Platt, H., Loading and Stresses on Earthworks and Tanks, 149
Visit to General Gas Appliances, Ltd., 860
Manchester District Association of Gas Engineers, Notice of Meeting, 858
Marsh, A., Smoke and Inland Air Routes, 136
Masonic—Evening Star No. 1719—
Installation Meeting, 378
Meeting During Institution Week, 798
Masterman, C. A., Distribution and Utilization in Canada and U.S.A., 551, 784
Maybole Gas Company, Centenary Exhibition, 26
Meade, A., Review of "A New Modern Gas-Works Practice," 541
Meters—
Testing at Exeter, 538
Testing at Manchester, 543, 904
Meters, Ltd., Manchester, 441
Metropolitan Gas Companies' Official Testings, 336
Metropolitan Gas Company of Melbourne, 154
Middlesbrough Gas Department, New Gasholder, 378
Mid-Kent (Snodland) Gas Light and Coke Company, A First-Rate Testimonial, 905
Midland Association of Gas Engineers and Managers, Visit to Leamington Priors Gas-Works, 445
Midland Coke Research Committee, Progress, 148
Midland Junior Gas Association—
Annual Meeting, 467
Bate, F. H., and Myhill, A. R., Carbonizing Results in Vertical Practice, 203
Reynolds, H. J., Crude Benzole Recovery from Vertical Retort Gas, 38
Milne-Watson, Sir David, Address before National Gas Council, 383, 370
Minehead Gas Light and Coke Company—
Cookery Lectures, 441
Exhibition, 315
New Showrooms at Dunster, 198
Ministry of Health—
Application for Erection of a Gasholder at Middlesbrough, 378
Application for Loan by Coventry, 315
Mitchell, J. K., Coke Production in Horizontal Practice, 96
Montevideo Gas and Dry Dock Company—
General Meeting, 864
Interest on Mortgage Stock, 857
Recommendation to Pay Dividend, 538
Mossley Gas Department, Features of the New Works, 468
Motherwell Gas-Works, New Showrooms for Wishaw, 858
Municipal Housing Estates, Attack on Gas Light and Coke Company's Bill, 440
Murphy, Mrs. E., Humanizing the Gas Industry, 198
Myhill, A. R., Carbonizing Results in Vertical Retorts, 203

National Coke and Oil Company, Ltd., New Plant, 378
National Enamels, Ltd., Description of Works, 141
National Gas Council—
Annual Meeting, 383
Central Executive Board Meetings, 139, 442
Multiplicity of Tariffs, 899
Report on the Uses of Compressed Gas for Motor Transport, 906
Scottish Central Executive Board Meeting, 321
Scottish Non-Statutory Gas Companies, 378
Sir David Milne-Watson's Address, 383, 370
National Physical Laboratory, Report, 318
National Radiator Company, "Ideal Cookanheat," 275
National "Safety First" Association, Road Safety Campaign, 82
National Smoke Abatement Society—
Change of Address, 902
Meeting During Institution Week, 441
Open Grate Coke, 856
Symposium on Smokeless Open Grate Fuel, 862
Nelson Gas Department, 865
New Capital Issues—
Ascot, 276, 474
Chichester, 156, 336
Dudley, 42
Gosport, 916
Plymouth, 42
Slough, 42
Weston-super-Mare, 815
Weymouth, 42, 156, 214
Newcastle-upon-Tyne and Gateshead Gas Company—
Aspects of Benzole Recovery and Refining, 559
Demonstration of "Kitchencraft" at Messrs. Fenwicks, 251
Explosion Case at Gateshead, 30
Lighting Scheme, 857
Newman, Hender, & Co., Ltd., Catalogue, 155, 276
Newmarket Gas Company, Exhibition, 79
Newquay Gas Company, 276
North British Association of Gas Managers—
Drawing of President, 138
Spring Meeting and Presidential Address of L. Bain, 91
North of England Gas Managers' Association—
Annual Meeting, 316
Atley, W. W., Recent Reconstruction Work at Stockton-on-Tees, 312, 323
Visit to Stockton, 904
North of England Gas Managers' Association (Auxiliary)—
Fall, F. P., Chairman's Address, 536, 610
Half-Yearly Meeting at Sunderland, 610
Norton, A. L., Cut-Off Safety Device for Calorimeters, 31
Nottingham Gas Department, Cookery Demonstrations, 539

Obituary—
Drew, W. N., 26
Foster, H. D., 250
Green, J., 26
Hardie, A., 901
Johnstone, J., 537
Marquison, H., 537
Miller, O. Von, 137
Poole, T., 26
Riddell, R. R., 646
Rogerson, W., 537
Sayers, R. J. H., 374
Spencer, Sir H., 250
Thompson, J., Senr., 194
Tully, E. G., 250
Zollikofer, Dr. H., 250
Oil, from South Wales Coal, 378
Oldham Gas Department, Street Lighting, 902
Oriental Gas Company, Dividends, 194
Oswaldtwistle Gas Department, Reduction of Prepayment Charge, 251
Oughton, E. L., Address to Parents' Association on Careers, 27

Parkinson, D B., Modernizing Small Gas Undertakings, 575, 795
Parkinson & Cowan, Ltd.—
  Annual General Meeting, 864
  Report, 808
Parkinson Stove Company, Ltd., Demonstrations at Chester, 538
Peebles & Co., Ltd., Governors, 274
Penrith Gas Department, Results, 154
Personal—
  Ashworth, J. D., 440
  Barber, F., 901
  Berglin, C. L. W., 26
  Bond, J., 137, 646
  Brewer, F. G., 374
  Buckley, E. S., 250
  Burton, E. L., 374
  Carmichael, T., 194
  Carr, Col. W. M., 374, 646
  Chapman, C. C., 137
  Clegg, J. H., 537
  Copp, H., 808
  Cox, J. E., 537
  Creasey, C. H., 440
  Crowther, E., 250
  Downs, F. S., 808
  Gamon, H. P., 901
  Goodenough, Sir F., 137, 373, 616
  Gray, J. R., 440
  Hailwood, Miss M., 374
  Halkett, R., 250
  Haslam, A., 646
  Jarvis, J. W., 856
  Johnson, S. B , 137
  Joyce, G. T., 537
  Keynon, G. H., 808
  Kirk, R., 856
  Lane, J. R., 194
  Lawrence, H. M., 808
  Leake, C. W., 537
  McCallum, J., 250
  Macdonald, J. B. A., 808
  Macdonald, R. C., 314
  Matheson, D. M., 808
  Mercer, A., 137
  Mond, E., 26
  Pease, E. L., 856
  Plant, J. P., 440
  Pyner, F., 26
  Rolfe, R. G., 808
  Royden, E. B., 194
  Shelley, W. J., 194, 250
  Slaughter, A. C., 464
  Southgate, F., 808
  Taylor, F. C., 373
  Taylor, R. C., 374
  Tetley, C. F., 373
  Thompson, E., 26
  Tyrer, A. K., 194
  Tyson, J., 137
  Wilshaw, E., 314
  Wood, B. F., 808
  Young, Dr. W., 314
Pifco, Ltd., New Manchester Premises, 811
Plant Safeguards, Widlake, H. C., 24, 33, 89
Platt, H., Loading and Stresses on Earthworks and Tanks, 149
Plymouth and Stonehouse Gas Light and Coke Company—
  Explosion Case, 88, 335
  Window Display, 444
Plymouth Gas Department, Proposal to Merge Water and Gas Departments, 858
Pneumatic Gas Lighting Company, Ltd., Change of Address, 335
Portsmouth Gas Company, Special Order Application, 381
Potterton, Thomas, Ltd., Installation at Southampton, 315
Pratt, J. D., Tariffs and the Chemical Industry, 85
Preece, F. H., Drawbacks in the Use of Clean Coal, 199
Prescot Gas Company, 154
Preston Gas Company, Installation at New County Offices, 661
Primitiva Holdings, Ltd.—
  Annual Meeting, 609
  Report, 401
Progas Company, Ltd., Change of Address of Mr. T. Coe, 811
Publicity, Regent Exhibition and Publicity Men, 442

Radiation Limited—
  Demonstration at—
    Alcombe and Minehead, 315
    Bletchley, 544
Ramsden, H., High-Pressure Distribution, 40
Raunds Gas Light and Coke Company, Ltd., Water Gas Plant, 24, 29
Redditch Gas Company, Demonstrations, 858
Refrigerators, Exhibition at Science Museum, 199
Retorts, Continuous Vertical—
  Controlled Cracking in, 901, 908
  New Installation at Rothesay, 256
Retorts, Horizontal, Steaming the Free Space in, 439, 451
Retorts, Vertical, Carbonizing Results in Vertical Practice, 192, 203
Reynolds, H. J., Crude Benzole Recovery from Vertical Retort Gas, 38
Richardson, B., Aspects of Benzole Recovery and Refining, 559, 773
Richmonds Gas Stove Company, Ltd.—
  Demonstration at Godalming, 317
  "Safety First" Medals for Lorry Drivers, 648
  Topical Display, 811
Roberts, J., International Coal Carbonization, 538
Rochdale Gas Department, Gas Charges, 905
Rotherham Gas Department—
  Results, 865
  Two-Part Tariff, 900
Rothesay Gas Department—
  Reconstructed Carbonizing Plant, 256
  Waste-Heat Plant, 197
Rowe, W. D.—
  In the Headlines, 136
  On Committee of Art in Industry Exhibition, 645

St. Helens Gas Department—
  Benzole Extraction, 26
  Results, 865
Sales, Gas, Relation to Temperature, 644
Saltcoats Gas Company—
  Five Years' Lighting Contract, 857
  New Scale of Charges, 539
Samuel, B., Drawbacks in the Use of Clean Coal, 199
Scottish Junior Gas Association (Eastern District)—
  Annual Outing to Hamilton, 861
  Visit to J. G. Stein & Co., 79
Sensicle, L. H., Hydrogen from Coal Gas, 136
Severn Valley Gas Corporation—
  Cheltenham Accept Offer, 315
  Increase of Capital, 378
  Offer for Cheltenham Stock, 138, 252
Shareholders, Offer of Fixed Units to, 861
Shaw, Capt. J. Fraser, Production of Smokeless Fuel in Chamber Ovens at Medium Temperatures, 603, 779
Sheffield Gas Company—
  Parliamentary Bill, 402, 469, 814
  South Yorkshire Grid, 438
  Town Gas in the Steel Industry, 587, 776
  University Ladies' Hostel, 450
Showroom Window Displays—
  Ascot Water Heaters, Ltd., 857
  Birkenhead, 377
  Coventry, 858
  Plymouth and Stonehouse, 444
  Richmonds', 811
Showrooms—
  Battersea, 377, 443
  Stratford, 80
  Warrington, 195
Simon-Carvès, Ltd., Electrostatic Precipitation, 335
Smith, Dr. E. W., Coke Oven Gas, 536, 538
Smoke—
  Effect on Inland Flying, 136
  Removal of Nuisance at Darwen, 315
Smoke Abatement, Manchester City Council and Introduction of Smokeless Fuels, 647
Smokeless Fuel—
  Manchester City Council and the Introduction of, 647
  Production of, in Chamber Ovens at Medium Temperatures, 603, 779
  Symposium on Open-Grate, 862
Société Bruxelloise du Gaz, Report for 1933, 441
Société du Gaz de Paris, Report, 808, 857
Society of British Gas Industries—
  Annual Meeting and Dinner, 387
  Decision of Committee re British Industries Fair, 373, 387
  Golf Day, 441
  Presidential Address of Earl Fitzwilliam, 389
Society of Chemical Industry—
  Annual Meeting and Dinner, 254
  Annual Report on Progress of Applied Chemistry, 202
Solihull Gas Company—
  Declaration of Calorific Value, 42
  Merger with Knowle and District Gas Company, 811
South African Lighting Association, Ltd., Annual Meeting, 660
South-Eastern Gas Corporation, Ltd.—
  Dividend, 251
  Offer to Chertsey, 378, 539
  Offer to Herne Bay, 79
  Ordinary General Meeting, 332
South Metropolitan Gas Company, Ambulance Contest, 381
South-Western Gas Corporation, Ltd., Statutory Meeting, 393
Southampton Gaslight and Coke Company, Recent Installations, 315
Southern Association of Gas Engineers and Managers—
  Annual General Meeting, 35
  Invitation to Watson House, 26
  Visit to Watson House and Fulham Stove Shops, 544
Southgate and District Gas Company, Discount Scheme, 379
Southport Gas Department, Retirement of Mr. J. Bond, 646
Special Order Applications—
  Berkhampstead, 914
  Bishop's Stortford, Harlow, and Epping, 914
  Bournemouth, 473
  Brighton, Hove, and Worthing, 214
  Portsmouth, 381
  Workington, 914
Spenborough Gas Department, Illegal Pipe Connection, 195
Spiers, H. M., Review of Technical Gas Analysis, 140
Stafford Gas Department, 807
Stamford and St. Martins Gas Light and Coke Company, Record Price for Stock, 441
Stanton Ironworks Company, Ltd., Demonstration Van, 613
Staveley Coal and Iron Company, Ltd., Visit of Yorkshire Junior Gas Association, 444
Steam Requirements on a Gas-Works, 210
Steel, Cutting by Oxy-Coal Gas, 84
Stein, J. G., & Co., Visit of Scottish Junior Gas Association, 79
Stellite, Registration as a New Company, 251
Stockton-on-Tees Gas Department—
  Recent Reconstruction Work, 323
  Visit of North of England Association, 904
Stoke-on-Trent Gas Department—
  Benzole Recovery Plant, 382
  Increase in Output, 315
Stourbridge Gas Department—
  Results, 914
  Tenders for Extensions, 808
Stroud Gas Light and Coke Company, Social Club's Visit to London, 647
Sugg, Wm., & Co., Ltd.—
  Floodlighting by Gas, 98
  Lay-Out and Equipment of a Lighting Research Laboratory, 446
Suicides and the Introduction of Odorants into Gas, 249
Sunderland Gas Company, Modifications at the Hendon Works, 536, 610
Swansea Gas Light Company—
  Display, 197
  Pension and Co-Partnership Schemes, 198
Swindon United Gas Company—
  Declaration of Calorific Value, 914
  Reconstruction Plan, 648

Tamworth Gas Light and Coke Company, Offer to Shareholders by Messrs. Dawnay, Day, & Co., 902
Tariffs, Two-Part, 899
Tarratt, F. P.—
  Institution Week, 535
  Presidential Address before the Institution of Gas Engineers, 664, 767
Taylor, F. M. H.—
  Coke for Steam Raising, 142
  The Marketing of Coke, 912
Technical Signpost to the "JOURNAL," Vol. 205, 650
Teignmouth Gas Department, Forthcoming Centenary, 316
Timaru Gas, Coal, and Coke Company, Progress, 197
Torquay and Paignton Gas Company—
  Exhibition, 318
  Results, 154
Tottenham and District Gas Company—
  Illumination of Barrowell Green Baths, 808
  Visited by the Institution of Gas Engineers, 800
Tredegar Gas Department, Increased Consumption, 138
Tully, Sons, & Co., Ltd., Complete Gasification Plant for Prestonpans, 811

Ulverston Gas Department, Centenary, 138
Union Internationale de l'Industrie du Gaz, Zurich Conference, 315

Valon, A., Gas-Heated Swimming Pools, 808
Vertical Gas Retort Syndicate, Ltd., "Simplex" Plant for Monifieth, 98

Wales and Monmouthshire Association of Gas Engineers and Managers—
  Annual Meeting at Cardiff, 449
  Golf at Penarth, 450
  Madden, H. D., Steaming the Free Space in Horizontal Retorts, 439, 451
  Notice of General Meeting, 858
  Visit to Industries Exhibition, 810

Wales and Monmouthshire Junior Gas Association—
Annual Meeting, 810
Langford, K. H., Economics of Gas in Industry, 257
Wandsworth and District Gas Company—
Application to Borrow, 214
Coke Screening and Grading Plant, 83
Traffic Bollards, 902
Visual Comparison of Gas and Electricity Practice, 85
Warrington Gas Department—
Controlled Cracking in Vertical Retorts, 908
New Showrooms, 138, 195
Water Gas, Automatic Plant at Raunds, 24, 29
Water Heating, A Standard Bath and, 536
Watford and St. Albans Gas Company—
Centenary Celebrations, 28
Entry in Local Carnival, 649
Watson House Visited by Southern Association, 544
Waverley Association of Gas Managers, Notice of Annual Meeting, 808, 860
Welding—
Gasholder Repairs While in Action, 655
Technical Education in, 538
Wellingborough Gas Light Company, Lighting Contract, 902
West Bromwich Gas Department, Exhibition, 377
Western Junior Gas Association—
Annual Meeting at Bath, 196
Hole, S., Carbonization of Somerset Coals, 265
Langford, A. R., Methods for Reducing District Complaints, 36
Weston-super-Mare and District Gas Company, New Capital Issues, 815
West's Gas Improvement Company, Ltd., Reconstructed Carbonizing Plant at Rothesay, 256
Whessoe Foundry and Engineering Company—
Annual Meeting, 915
Electrical Precipitation, 335
Whitehaven United Gas Company, New System of Charges, 251
Widlake, H. C., Plant Safeguards, 24, 33, 89
Widnes Gas Department, Sales Analysis, 196
Wikner, S. W. A., Aspects of Benzole Recovery and Refining, 559, 773
Willey & Co., Ltd., Change of Telephone Number, 42
Wilson, Geo., Gas Meters, Ltd., New Premises, 916
Winchester Water and Gas Company, Demonstrations, 377
Winser Rotary Carbonizing Oven, 32
Winsford Gas Department, Exhibition, 649
Worcester New Gas Light Company, Gas Heated Swimming-Pool, 909
Wright, John, & Co., Ltd., Installation at Preston, 661
Yeovil Gas Department, Free Services, 194
York Gas Company, Floodlighting during Civic Week, 902
Yorkshire Junior Gas Association—
Firth, H., High-Pressure Distribution, 40
Halliwell, F. B., Experiences with High-Pressure Gas for Road Transport, 39
Heathcote, Dr. F., Scientific Research as an Aid to Industrial Gas Salesmanship, 259
Mitchell, J. K., Coke Production in Horizontal Practice, 96
Visit to—
Rotherham, 252
Staveley, 444

PATENTS.

Ashmore, Benson, Pease, & Co., Ltd., and Bloor, H. E.—Dry Gasholders, 275
Carpenter, C. C., Andrews, A. H., and the South Metropolitan Gas Company—Firing Retort Settings, 615
Gill, G. M.—Gas Fires, 335
Humphreys & Glasgow, Ltd., and Morgan, G. H.—Water-Cooled Condensers, 615
Main, R. & A., and Wortley, G. W.—Radiators, 615
Radiation, Ltd., and Poole, R.—Thermostats, 456
United Gas Industries, Ltd., and Blanchford, R. F.—Gas Fire Construction, 335

400,543. Dry Gasholders — Ashmore, Benson, Pease, & Co., Ltd., and Bloor, H. E., 275

399,948. Firing Retort Settings—Carpenter, C. C., Andrews, A. H., and the South Metropolitan Gas Company, 615

399,878. Gas Fire Construction — United Gas Industries, Ltd., and Blanchford, R. F., 335

400,737. Gas Fires—Gill, G. M., 335

400,186. Radiators—Main, R. & A., and Wortley, G. W., 615

398,964. Thermostats — Radiation, Ltd., and Poole, R., 456

399,746. Water-Cooled Condensers—Humphreys & Glasgow, Ltd., and Morgan, G. H., 615

CORRESPONDENCE.

Boys Calorimeter, New Model—Boys, Prof. C. V., 375
Coke Oven Gas—Smith, E. W., 538
Gas-Heated Swimming Pools—Valon, A., 808
Hydrogen from Coal Gas—Sensicle, L. H., 136
In the Headlines—Rowe, W. D., 136
International Coal Carbonization—Roberts, J., 537
Re-Staining of Purified Gas—Huff, W. J., 136
Smoke and Inland Air Routes—Marsh, A., 136
Who Sells the Cheapest Gas?
Blincoe, C. F., 537
Curry, J. H., 808
Halkett, R., 646

Blincoe, C. F.—Who Sells the Cheapest Gas? 537
Boys, Prof. C. V.—Boys Calorimeter, New Model, 375
Curry, J. H.—Who Sells the Cheapest Gas? 808
Halkett, R.—Who Sells the Cheapest Gas? 646
Huff, W. J.—Re-Staining of Purified Gas, 136
Marsh, A.—Smoke and Inland Air Routes, 136
Roberts, J.—International Coal Carbonization, 537
Rowe, W. D.—In the Headlines, 136
Sensicle, L. H.—Hydrogen from Coal Gas, 136
Smith, E. W.—Coke Oven Gas, 538
Valon, A.—Gas-Heated Swimming Pools, 808

PARLIAMENTARY.

Amendment of Law of Arbitration, 380
Gas Undertakings Bill, 135, 855, 859
Petroleum (Production) Bill, 25
Sheffield Gas Company, 438, 469, 814, 402

LEGAL.

Coatbridge Poisoning Fatality, 645, 656
Dunfermline Accident, 914
Gateshead Explosion Case, 30
Koppers and Woodall-Duckham *v.* Bowater and Lymn Patents Case, 448
Plymouth Explosion Case, 88, 335

Printed (at the Chancery Lane Printing Works, Ltd.) for WALTER KING, LIMITED, No. 11, BOLT COURT, FLEET STREET, LONDON, E.C. 4.—Wednesday, July 11, 1934.